University of Utah Sliceable Network

Internet2

Utah Education Network

Metro Optical Ring

Downtown Data Center Performance/ Sliceable router

ProtoGENI/InstaGENI Network Testbed

Utah Education Network

Performance/ Sliceable Internet border router

Internet border router

Internet border router

RTBH trigger router with trigger scripts provides security model that allows full line rate

Bro Cluster to provide trigger input

Data Transfer Node/Gateway

perfSONAR

Enterprise firewalls

WAN router

WAN router

Core router

Core router

Honors Housing slice – dedicated OpenFlow capable slice

Honors

DYNES – dedicated slice between 2 instrument switches

ProtoGENI slice – dedicated slice between 2 OpenFlow

GENI capable switches

Distribution router

Distribution router

Hospital, Clinic, data center or other firewall

Distribution router

Distribution router

Distribution router

Distribution router

Local entity access router or switch, i.e. CHPC router

FDT Data Transfer Node/ Gateway

ProtoGENI/InstaGENI Network Testbed

Emulab Network Testbed

Data Transfer Node/Gateway

perfSONAR

Physical bypass setup supports multiple departments from multiple distribution nodes. Can support multiple configurations for connectivity. Scalable to 100G+
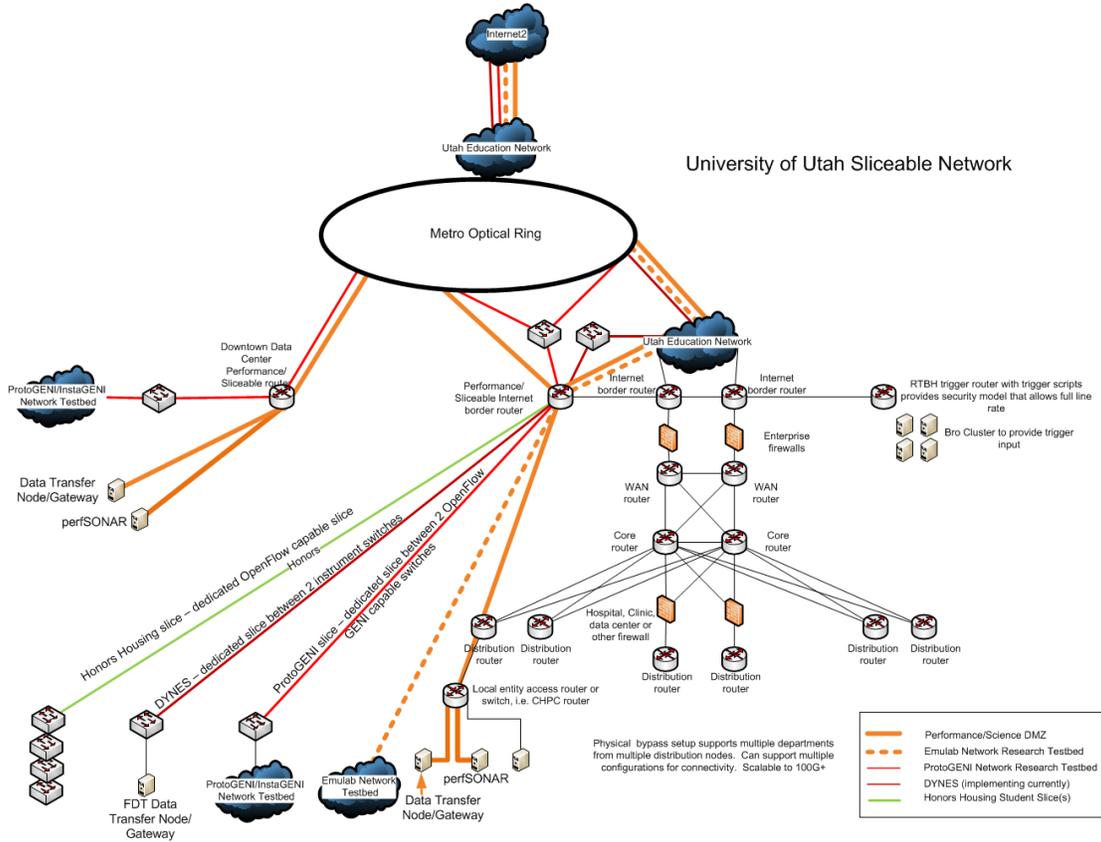
Performance/Science DMZ

Emulab Network Research Testbed

ProtoGENI Network Research Testbed

DYNES (implementing currently)

Honors Housing Student Slice(s)